

Amendments to the Specification:

On page 1, please delete the heading International University Bremen, Campus Ring 1, 28759 Bremen.

On page 1, after the title before line 1 add the following heading:
Background of the Invention

On page 3, after line 10 add the following heading:
Summary of the Invention

On page 3, the paragraph beginning on line 18 please amend as follows:

This object is achieved according to the present invention by a communications system as ~~claimed in claim 1~~ wherein a reservation indicator transmitted by a receiving station carries

On page 4, the paragraph beginning on line 1 please amend as follows:

A corresponding communications method is defined ~~in claim 15~~. An appropriate transmitting station according to the invention is defined ~~in claim 16~~, an appropriate transmitting station according to the invention is defined ~~in claim 17~~. Preferred embodiments are defined in the dependent claims.

On page 6, the paragraph beginning on line 30 please amend as follows:

A simple embodiment of representing the desired information by the reservation indicator is defined ~~in claim 4~~. Therein, the presence or absence of the reservation indicator represents two different reservation indicator values and thus two different pieces of information. In a different embodiment, ~~as claimed in claim 4~~, two different reservation indicator values, for instance bit "0" or bit "1", are used. Of course, many different variations of indicating two different kinds of information are possible and can be used here.

On page 8, after line 25 add the following heading:

Brief Description of the Drawings

On page 9, after line 20 add the following heading:

Detailed Description of the Preferred Embodiment(s)

Please amend the Abstract as follows to be one continuous paragraph:

Abstract

The present invention relates to a communications network ~~comprising a plurality of~~ including transmitting stations and receiving stations for transmitting and receiving signals, ~~said the~~ said the transmitting stations being adapted for transmitting a data signal as a series of data packets, wherein a data packet is scheduled to be transmitted by use of an available transmission resource, and ~~said receiving stations being adapted for transmitting~~ a reservation indicator for reception by transmitting stations. In order to avoid transmission conflicts, in particular inter-cell conflicts in a cellular TDMA communications network, it is proposed that a reservation indicator transmitted by a receiving station carries a first reservation indicator value to indicate that a data transmission resource has been reserved by ~~said the~~ said the receiving station for reception of the next data packet of a data signal from a transmitting station transmitting said data signal or a second reservation indicator value to indicate that a data transmission resource has not been reserved by ~~said the~~ said the receiving station for reception of the next data packet from ~~said transmitting station~~ or that the last data packet has not been received with acceptable interference from ~~said the~~ said the transmitting station, and wherein transmitting stations receiving a reservation indicator carrying a first reservation indicator value transmitted from a receiving station to which no data signal has been transmitted by them will not transmit a data packet by use of the reserved transmission resource.

(Fig. 2)

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A communications network comprising a plurality of transmitting stations and receiving stations for transmitting and receiving signals, said transmitting stations being adapted for transmitting a data signal as a series of data packets, wherein a data packet is scheduled to be transmitted by use of an available transmission resource, and said receiving stations being adapted for transmitting a reservation indicator for reception by transmitting stations,

wherein a said reservation indicator transmitted by a receiving station carries

- a first reservation indicator value to indicate that a data transmission resource has been reserved by said receiving station for reception of the next data packet of a data signal from a transmitting station transmitting said data signal
or

- a second reservation indicator value to indicate that a data transmission resource has not been reserved by said receiving station for reception of the next data packet from said transmitting station or that the last data packet has not been received with acceptable interference from said transmitting station, and

wherein transmitting stations receiving a reservation indicator carrying a first reservation indicator value transmitted from a receiving station to which no data signal has been transmitted by them will not transmit a data packet by use of the reserved transmission resource.

2. (Original) A communications network as claimed in claim 1,
wherein each data packet is transmitted in a fixed data time slot within a time frame,
wherein indicator time slots are assigned to said data time slots, and

wherein a reservation indicator transmitted in an indicator time slot indicates if the associated data time slot has been reserved in the subsequent time frame for transmission of the next data packet by said transmitting station.

3. (Original) A communications network as claimed in claim 1, wherein said data packets are transmitted in a fixed data sub-carrier, wherein an indicator sub-carrier is assigned to said data sub-carrier, and wherein a reservation indicator transmitted in an indicator sub-carrier indicates if the associated data sub-carrier is reserved for transmission of the next data packet by said transmitting station.

4. (Currently Amended) A communications network as claimed in ~~anyone of the preceding claims~~ claim 1, wherein said first reservation indicator value is represented by transmitting a reservation indicator and wherein said second reservation indicator value is represented by transmitting no reservation indicator.

5. (Currently Amended) A communications network as claimed in ~~anyone of the preceding claims~~ claim 1, wherein a data transmission resource for the transmission of data packets of a signal is selected based on said reservation indicator.

6. (Currently Amended) A communications network as claimed in ~~anyone of the preceding claims~~ claim 1, wherein a transmitting station stops the transmission of data packets in the reserved data transmission resource upon receipt of a reservation indicator from the receiving station to which the transmission station transmits data packets, if said received reservation indicator carries a reservation indication value indicating that a data transmission resource has not been reserved by said receiving station for reception of the next data packet from said transmitting station and/or that the last data packet has not been received with acceptable interference from said transmitting station.

7. (Currently Amended) A communications network as claimed in ~~anyone of the preceding claims~~ claim 1,

wherein a transmitting station transmits a continue indicator along with a data packet indicating if at least one further data packet shall be transmitted to the receiving station in the same data transmission resource.

8. (Original) A communications network as claimed in claim 7,

wherein the receiving station, to which the transmitting station transmits a signal, transmits a reservation indicator value indicating that the data transmission resource has been reserved for reception of at least one further data packet if said continue indicator indicates that at least one further data packet shall be transmitted in the same data transmission resource.

9. (Currently Amended) A communications network as claimed in ~~anyone of the preceding claims~~ claim 1,

wherein the transmission of a signal from a transmitting station to a receiving station is controlled based on received reservation indicators such that the data packets of the signal are transmitted in data transmission resources that are not reserved by said receiving station or other receiving stations for use by other transmitting stations.

10. (Currently Amended) A communications network as claimed in ~~anyone of the preceding claims~~ claim 1,

wherein said data transmission resource is a data time slot, a data sub-carrier, a data carrier and/or a data code.

11. (Currently Amended) A communications network as claimed in ~~anyone of the preceding claims~~ claim 1,

wherein said network is a cellular communications network, an ad-hoc communications network or a hybrid cellular/ad-hoc communications network.

12. (Currently Amended) A communications network as claimed in ~~anyone of the preceding claims~~ claim 1,

wherein said transmitting stations are adapted for checking if a received reservation indicator is a valid reservation indicator.

13. (Original) A communications network as claimed in claim 12,

wherein said transmitting stations are adapted for checking the validity of a received reservation indicator by determining the actual path gain for said received reservation indicator and by comparing it to the expected path gain.

14. (Original) A communications network as claimed in claim 13,

wherein said transmitting stations are adapted for judging a received reservation indicator as invalid if the actual path gain is substantially different from the expected path gain, in particular if the percentage error between the actual path gain and the expected path gain is larger than a ~~predetermined threshold, in particular larger than~~ 5%.

15. (Previously Presented) A method of communicating in a communications network comprising a plurality of transmitting stations and receiving stations for transmitting and receiving signals comprising the steps of:

transmitting a data signal as a series of data packets by said transmitting stations, wherein a data packet is scheduled to be transmitted by use of an available transmission resource, and

transmitting a reservation indicator for reception by transmitting stations by said receiving stations,

wherein said reservation indicator carries

- a first reservation indicator value to indicate that a data transmission resource has been reserved by a receiving station for reception of the next data packet of a data signal from a transmitting station transmitting said data signal or
- a second reservation indicator value to indicate that a data transmission resource has not been reserved by said receiving station for reception of the next data packet from

said transmitting station or that the last data packet has not been received with acceptable interference from said transmitting station, and
wherein transmitting stations receiving a reservation indicator carrying a first reservation indicator value transmitted from a receiving station to which no data signal has been transmitted by them will not transmit a data packet by use of the reserved transmission resource.

16. (Previously Presented) A receiving station for use in a communications network comprising a plurality of transmitting stations and receiving stations for transmitting and receiving signals, comprising:

receiving means for receiving a series of data packets of a data signal from a transmitting station, wherein a data packet is scheduled to be transmitted by use of an available transmission resource, and

transmitting means for transmitting a reservation indicator for reception by transmitting stations,

wherein said reservation indicator carries

- a first reservation indicator value to indicate that a data transmission resource has been reserved by said receiving station for reception of the next data packet of a data signal from a transmitting station transmitting said data signal

or

- a second reservation indicator value to indicate that a data transmission resource has not been reserved by said receiving station for reception of the next data packet from said transmitting station or that the last data packet has not been received with acceptable interference from said transmitting station, and

wherein transmitting stations receiving a reservation indicator carrying a first reservation indicator value transmitted from said receiving station to which no data signal has been transmitted by them will not transmit a data packet by use of the reserved transmission resource.

17. (Previously Presented) A transmitting station for use in a communications network comprising a plurality of transmitting stations and receiving stations for transmitting and receiving signals, comprising:

transmitting means for transmitting a series of data packets of a data signal to a receiving station, wherein a data packet is scheduled to be transmitted by use of an available transmission resource,

receiving means for receiving a reservation indicator transmitted from said receiving station,

wherein said reservation indicator carries

- a first reservation indicator value to indicate that a data transmission resource has been reserved by said receiving station for reception of the next data packet of a data signal from said transmitting station transmitting said data signal

or

- a second reservation indicator value to indicate that a data transmission resource has not been reserved by said receiving station for reception of the next data packet from said transmitting station or that the last data packet has not been received with acceptable interference from said transmitting station, and

a control means for controlling the transmitting means such that upon receipt of a reservation indicator carrying a first reservation indicator value transmitted from a receiving station to which no data signal has been transmitted by said transmitting station a data packet will not be transmitted by use of the reserved transmission resource.